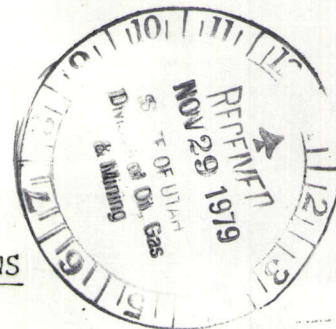


MINING APPLICATION  
NO. \_\_\_\_\_  
Date \_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116



NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS  
(Sec Rule M of General Rules and Regulations)

1. Name of Applicant or Company Continental Lime Inc.  
Corporation (XX) Partnership ( ) Individual ( )
2. Address 268 West 400 So. Suite 201, Salt Lake City, Utah 84101  
Permanent ~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~
3. Name and title of person representing company Wayne Nixdorf, Plant Manager
4. Address Box 266, Delta, Utah 84624 Office Phone 864-3823
5. Location of Operation Millard Sec. 25 & 36 T. 21S R. 10W  
County
6. Name of Mine Cricket Mountain Lime Plant Quarry
7. Mineral to be mined: Mining method:
- |                                      |                          |  |
|--------------------------------------|--------------------------|--|
| ( ) Coal                             | ( ) Flagstone            | <u>Quarry operations will be carried out in a benching fashion using a drill and blast procedure to produce quarry run sized limestone. The limestone material will then be loaded into haul trucks with a rubber tired loader for transportation from the working face to the crushing &amp; screening plant.</u> |
| ( ) Copper                           | ( ) Gravel               |  |
| ( ) Manganese                        | ( ) Shale                |  |
| ( ) Iron Ore                         | ( ) Uranium              |  |
| ( ) Phosphate                        | ( ) Gilsonite            |  |
| ( ) Potash                           | ( ) Bituminous Sandstone |  |
| ( ) Fluorspar                        | ( ) Tungsten             |  |
| ( ) Other (specify) <u>Limestone</u> |                          |  |
8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?  
( ) Yes (X) No  
If yes, list all approval numbers now under surety:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. Owner/Owners of record of the surface area within the land to be affected:
- Sec 25 T21 S R 10W is the property of Address B.L.M.-Utah State Office  
the U.S. Government administered by the University Club Bldg.  
Bureau of Land Management. Address 136 East So. Temple, SLC
- Sec 36 T21 S R 10W is the property of Address Land Board Office  
the State of Utah Leased to Continental 231 East 400 South  
Lime Inc., Utah State Lease No. ML-35572 ✓ SLC



10. Owner/Owners of record of minerals to be mined:

<u>Sec 25 - T21S - R10W</u>	Address	<u>B.L.M.-Utah State Office</u>
<u>Minerals owned by U.S. Government</u>	Address	<u>University Club Bldg.</u>
		<u>136 East So. Temple, SLC</u>
<u>Sec 36 - T21S - R10W</u>	Address	<u>Land Board Office</u>
<u>Minerals Owned by State of Utah</u>	Address	<u>231 East 400 South</u>
		<u>SLC <b>ML-35572</b></u>

11. Owner/Owners of record of all other minerals within any part of the land affected:

_____	Address	_____
_____	Address	_____
_____	Address	_____

11a. Have the above owners been notified in writing?

(X) Yes ( ) No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Company Incorporated January 18, 1978-qualifications on file with B.L.M. - Serial Number U-38700.

13. Approximate acreage to be disturbed:

- A) Mining Operation Area - .260 acres  
(include operations, storage, & disposal area)
- B) Access Road or Haulageway - less than 15 acres
- C) Drainage System - less than 1 acres

TOTAL ACRES: 276

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or person performing a similar function) of Applicant:

Name:	Title:	Address:
-------	--------	----------

- |                        |  |  |
|------------------------|--|--|
| a. <u>C.R. McNally</u> | <u>President</u>                                 | <u>268 West 400 So. Suite 201, SLC</u> |
| b. <u>Harry King</u>   | <u>Secretary, Treasurer &amp; Vice President</u> | <u>Steel Brothers/Canada</u>           |
| c. <u>J.B. Jordon</u>  | <u>Chairman</u>                                  | <u>Steel Brothers/Canada</u>           |
| d. <u>J.S. Kirkham</u> | <u>Assistant Secretary</u>                       | <u>VanCott, Bagley/SLC</u>             |

15. Has Applicant, any subsidiary or affiliate or any person, partnership, association, trust, or corporation controlled by or under common control with Applicant, or any person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? ( ) Yes (X) No

If yes, explain:



STATE OF Utah  
COUNTY OF Millard

I, Wayne R. Nixdorf, having been duly sworn  
depose and attest that all of the representations contained in the foregoing  
application are true to the best of my knowledge; that I am authorized to  
complete and file this application on behalf of the Applicant and this  
application has been executed as required by law.

Signed: *Wayne R. Nixdorf*

Taken, subscribed and sworn to before me the undersigned authority  
in my said county, this 29th day of November, 1979.

Notary Public: *Bessie T. Pulverich*

My Commission Expires: 11-27-81

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as  
follows:

"Information relating to the location, size, or nature  
of the deposit and marked confidential by the operator,  
shall be protected as confidential information by the  
Board and the Division and not be a matter of public  
record in the absence of a written release from the  
operator, or until the mining operation has been  
terminated as provided in subsection (2) of section  
40-8-21."

Is confidential information contained herein?

☒ YES

CRM

(Initial)

☐ NO

(Initial)

Sections desired to be maintained as confidential information -

m3 MR FORM 1 PAGE 1 No. 5

Plate Map No. 1,2,3,4,6,7,8,9



MINING APPLICATION  
NO. \_\_\_\_\_

Date \_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided  
they contain the same information)

1. Name of Applicant or Company Continental Lime Inc.
2. Proposed type of operation Surface Limestone Quarry
3. (a) Prior Land Use(s) Open Range  
(b) Current Land Use(s) Open Range  
(c) Possible or Prospective Future Land Use(s) Open Range
4. What vegetation exists on the land proposed to be affected 60% of the land effected is bare rock with scattered pinyon and juniper trees. The remaining area is cold desert vegetation including sage brush, galleta grass, etc.  
(a) Types and Estimated Percent cover or density: \_\_\_\_\_  
Percent Cover - Sparce
5. What is the pH range of soil before mining? 8.4 - 8.6 pH  
Name of Person or Agency and method of determining pH Dames and Moore  
Consultants in the environmental and applied earth sciences.
6. Site elevation above sea level 5,500 to 6,100
7. In case of coal, oil shale, and bituminous sandstone:  
Principal seam(s) and thickness(es) \_\_\_\_\_
8. Estimated duration of mining operations 30-100 years
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? ( ) Yes (X) No  
Does the above material being moved have any other characteristics affecting revegetation? Desert soils in this area are primarily silty clays and fine sandy silts.
10. Will any underground workings or aquifers be encountered? ( ) Yes (X) No  
Describe \_\_\_\_\_  
Is there an active discharge of water from abandoned deep mines on or crossing the land affected? ( ) Yes (X) No If yes, describe the quality of water being discharged. \_\_\_\_\_



11. Describe specifically a detailed procedure for:
- (a) The mining sequence
  - (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
  - (c) The procedure for site preparation including removing trees and brush.
  - (d) The method for removing and stockpiling topsoil or disturbed materials.
  - (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
  - (f) A procedure for final stabilization of disturbed materials.

#### GRADING AND REGRADING

Specifically describe:

- (a) Typical cross-section of regrading.
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

#### TESTING

1. Describe method for testing stability of reclamation fill material. Stability testing will be carried out using approved scientific procedure in the appropriate areas.  
Describe method for the testing of soil that is intended to support vegetation  
Laboratory analysis by Dames and Moore.
2. Describe any soil treatment employed as an aid to revegetation \_\_\_\_\_  
Soil treatment as required to revegetate to original.
3. Describe surface preparation of areas intended to support vegetation:  
Overburden and waste rock will be moved back into the mined-out areas followed by available soils. These materials will be moved and spread using rubber tired loaders and trucks.

#### REVEGETATION

1. Revegetation to be completed by:
- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Operator        | <input type="checkbox"/> Hydroseeding                       |
| <input type="checkbox"/> Soil Conservation District | <input type="checkbox"/> Aerial Seeding                     |
| <input type="checkbox"/> Private Contractor         | <input type="checkbox"/> Conventional or Rangeland Drilling |
| <input type="checkbox"/> Other (specify) _____      | <input checked="" type="checkbox"/> Broadcast and Drag      |
|   | <input type="checkbox"/> Other _____                        |

2. Will Mulch be used? ( ) Yes (X) No

Type: \_\_\_\_\_ Rate/Acre \_\_\_\_\_ lbs.

3. Revegetation Plan and Schedule -

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
Revegetation plan and schedule will include the seeding of an approved grass seed mix along with the appropriate species of pinyon and juniper trees where applicable.				

4. Will affected area be subject to livestock or wildlife grazing?

(X) Yes ( ) No Will vegetation protection be needed? The area once reseeded will be subject to livestock (October to April) and wildlife grazings.

Appropriate protection will be taken at that time.

5. Will irrigation be used: ( ) Yes (XX) No Type \_\_\_\_\_

6. Describe maintenance procedures for revegetation if needed, until surety release is granted.

Area will be kept under surveillance during this period and reseeded as required.



STATE OF Utah

COUNTY OF Millard

I, Wayne R. Nixdorf, having been duly sworn  
depose and attest that all of the representations contained in the foregoing  
application are true to the best of my knowledge; that I am authorized to  
complete and file this application on behalf of the Applicant and this  
application has been executed as required by law.

Signed: *W. R. Nixdorf*

Taken, subscribed and sworn to before me the undersigned authority  
in my said county, this 27th day of November, 19 79.

Notary Public: *Bessie K. Pulverich*

My Commission Expires: 11-29-81

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows:

"Information relating to the location, size, or nature of the deposit and marked confidential by the operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21."

Is confidential information contained herein?

(YES) CRM (Initial)

NO (Initial)

Sections desired to be maintained as confidential information -

M3 Plate Map No. 1, 2, 3, 4, 6, 7, 8, 9  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



MR FORM 2

II.

A. THE MINING SEQUENCE

The quarry will be located within the bounds of the mining claims and the State of Utah limestone lease described below. The specific quarry and its sequence of development as depicted on Plate Map No. 1 and 2 covers the following areas.

Township 21 South, Range 10 West, SLB & M

Section 25 SE $\frac{1}{4}$  SW $\frac{1}{4}$ , SW $\frac{1}{4}$  SE $\frac{1}{4}$  (TED 4 and 6)

Section 36 W $\frac{1}{2}$  NE $\frac{1}{4}$ , NW $\frac{1}{4}$  (State Lease)

Quarry operations will be carried out in a benching fashion using a drill and blast procedure to produce quarry run sized limestone. All mining will be conducted so as to comply with the rules, regulations, and mining laws that are applicable in the State of Utah. The limestone material will then be loaded into haul trucks with a rubber tired loader for transportation from the working face to the crushing and screening plant for sizing. Location of working faces, access roads, storage piles and crushing plants are marked in Plate Map No. 1 and 2.

The crushing facility consists of a single rotor impact crusher capable of 100% reduction to 6" minus in the first pass. Stone removed from the quarry will be crushed in the crusher at a rate of approximately 360 tons per hour. The crushed stone will then be screened on a two deck screen. The plus 2" stone will return to the crusher via a belt conveyor and the 3/4" fines will be stockpiled at the quarry for utilization if markets become available. The stone screened to -2" and 3/4" will be loaded into trucks and transferred to the process plant site at a projected rate of 1,200 tons per day. This material becomes the kiln feed of the processing plant.

Bench development and vegetation removal is scheduled to start March 1, 1980. A projected schedule reflecting, overburden and limestone removal in the area as indicated on Plate Map No. 1 is as follows.

Year	Area	Tons of Overburden	Tons of Limestone
1980	A	Less than 2,000	200,000
1981	A	Less than 2,000	400,000
1982	A	Less than 4,000	540,000
1983	A	Less than 4,000	600,000
1984	A	Less than 5,000	620,000
1985	A&B	Less than 10,000	620,000
1986	A&B	Less than 20,000	640,000
1987	AB&C	Less than 20,000	640,000
1988	AB&C	50,000	640,000
1989	AB&C	100,000	640,000



B. CONSTRUCTION & MAINTENANCE OF ACCESS ROADS TO THE QUARRY

Access roads will be developed as required to connect the various benches to the main road leading to the crusher hopper. These roads are shown on Plate Map No. 1 .

Original construction will utilize the sand and gravel available in the area between the crushing plant at bench A-1. They will be constructed using equipment such as trucks, loaders, and graders. All grades will be kept within allowable limits and run outs incorporated where applicable. Typical section is depicted on Plate Map No. 5 .

C. REMOVAL OF VEGETATION AND SITE PREPARATION

Vegetation removal for the first 6 years will be very little and consist mainly of a few pinyon and juniper trees. These will be removed by hand, piled in an appropriate area and disposed of by fire. No more preparation will be required as the remaining material is exposed limestone.

D. REMOVAL AND STOCKPILING OF SOIL

When soil is encountered it will be removed with the aid of crawler tractors, loaders, and trucks to the designated storage areas as indicated on Plate Map No. 1 .

E. A PROCEDURE FOR PLACEMENT AND CONTAINMENT OF DISTURBED MATERIAL

Containment of disturbed materials will be as follows.

Higrade Limestone

2" x 3/4" - Water spray for dust supression at the crusher. Due to the size of the material and the limited time it will spend in stockpile no further action is deemed necessary.

3/4" minus - Water sprays at the crusher and chemicals as required in the stockpile.

Overburden

This material will consist of 48" minus rock and will be fairly stable in the disposal areas.

Soil

Vegetation will be encouraged where stockpiles will remain dormant for many years.

F. FINAL STABILIZATION OF DISTURBED MATERIAL

Final stabilization of disturbed material will be accomplished by sloping the areas of concern to the desired slopes. Available top soil will then be spread where applicable and approved vegetation encouraged.



GRADING AND REGRADING

- A. Typical cross-section of regrading is depicted on Plate Map No. 3 .
- B. Top soil where available will be moved via loader and truck to the appropriate area. Spreading will be accomplished with a tracked dozer and will be spread to a thickness reflecting the availability of the soil.
- C. No particular soil treatment is anticipated.
- D. Drainage control for the reclaimed areas will be accomplished using berms and ditches. Due to the limited amount of rain fall in the area, few will be required and their location will be determined by the final grades and slopes.
- E. Maximum grading slope is anticipated to remain within the 45° allowed.